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E7.3 10945
CR-133621

Monthly Report
to
National Aeronautics and Space
Administration

Contract No. NAS 9-13337
Period Ending September 1, 1973

Remote Sensing Institute
South Dakota State University
Brookings, South Dakota 57006

(E73-10945) [SITE SELECTION AND DATA
ACQUISITION FOR SL-3 MISSION] Monthly
Progress Report, period ending 1 Sep.
1973 (South Dakota State Univ.) 3 p HC
\$3.00

N73-30287

Unclas
CSCL 14B G3/13 00945

3.0 Report of work as identified in Ex. A (SOW)---Contract NAS 9-13337

3.1 Progress Reports

a. Overall status ----

A team from Remote Sensing Institute placed the ground sensors at the Mobridge test site for the anticipated August 3 and 6 SKYLAB data take. The weather for both August 3 and 6 was satisfactory; however, no SKYLAB data were collected. The sensors were then deassembled with little ground data actually collected.

A new site for the SL-3 mission was selected by a visual analysis of ERTS data. Coordination of the new site with both the technical monitor and the aircraft section was accomplished. The anticipated SKYLAB pass will be September 14, 1973.

b. Recommendations ----

Recommendations at this time are for C130, RB57, and Remote Sensing Institute aircraft underflights to the September 14, 1973, SKYLAB overpass. In addition, to fully accomplish the objectives of our proposal a predawn Remote Sensing Institute flight will be conducted for September 14, 1973, to obtain nocturnal thermal emittance.

c. Expected accomplishments ----

Both on-site ground data collection and Remote Sensing Institute aircraft data will be collected simultaneously with the SKYLAB overpass on September 14. Preliminary reduction of the June 10, 1973, Remote Sensing Institute and C130 data is anticipated.

d. A readily.....results.....

Only a very small portion of the Timber Lake - Isabel test site will be suitable for analysis of the SKYLAB data. Cloud cover and cloud shadows are present for approximately 75 percent of the total scene. However, the C130 flight data were collected under cloud free conditions and will be utilized for analysis.

e. Summary outlook ----

At this time, the summary outlook appears to follow,

in general, that which is stated in the "SOW" of the contract. However, those data to be analyzed will be selected after knowledge of which data are available.

f. Travel summary ----

Travel in August included a trip by four Remote Sensing Institute personnel to the Mobridge test site for ground-based data collection. Anticipated travel in September will include a trip by four Remote Sensing Institute personnel to the Pierre test site area for ground-data collection for the September 14, 1973, overflight.